BIOTECHNOLOGY SYSTEMS BRANCH

FY 5630

RAW SEQUENCE LISTING ERROR REPORT
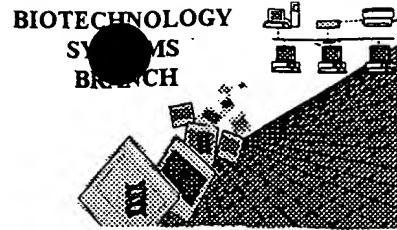
The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _O9/763,824_

Source: _PCT/09_

Date Processed by STIC: _6/6/2002_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
             Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

ERROR DETECTED	**SUGGESTED CORRECTION**	**SERIAL NUMBER:** 09/263,824

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 _____ Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino
Numbering

The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 _____ Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 _____ Variable Length

Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220><223> section that some may be missing.

6 _____ PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220><223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220><223> section to the subsequent amino acid sequence. This applies to the mandatory <220><223> sections for Artificial or Unknown sequences.

7 _____ Skipped Sequences
(OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)　　　SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 _____ Skipped Sequences
(NEW RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220><223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 _____ Invalid <213>
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220><223> section is required when <213> response is Unknown or is Artificial Sequence

11 _____ Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001
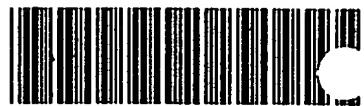
PCT09

RAW SEQUENCE LISTING   DATE: 06/06/2002
PATENT APPLICATION: US/09/763,824   TIME: 14:31:07

Input Set : A:\seq listing filed.txt
Output Set: N:\CRF3\06062002\I763824.raw

```
 4 <110> APPLICANT: The Secretary of State for Defence in Her Britannic Majesty's
 5       Government of the United Kingdom of Great Britain and Northern Ireland
 6       Tisi, Laurence C
 7       Murray, James AH
 8       Lowe, Christopher R
 9       White, Peter J
10       Murphy, Melanie J
11       Price, Rachel L
12       Squirrell, David
15 <120> TITLE OF INVENTION: Novel enzyme
17 <130> FILE REFERENCE: IPD/P1206/WOD
19 <140> CURRENT APPLICATION NUMBER: US/09/763,824
20 <141> CURRENT FILING DATE: 2002-04-29
22 <150> PRIOR APPLICATION NUMBER: GB 9823468.5
23 <151> PRIOR FILING DATE: 1998-10-28
25 <160> NUMBER OF SEQ ID NOS: 35
27 <170> SOFTWARE: PatentIn Ver. 2.1
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 23
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Description of Artificial Sequence:
36       Oligonucleotide
39 <400> SEQUENCE: 1
40 cgccggtgag ctccccgccg ccg                                          23
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 23
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial Sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: Description of Artificial Sequence:
50       Oligonucleotide
52 <400> SEQUENCE: 2
53 cggcggcggg gagctcaccg gcg                                          23
56 <210> SEQ ID NO: 3
57 <211> LENGTH: 51
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: Description of Artificial Sequence:
63       Oligonucleotide
65 <400> SEQUENCE: 3
```

RAW SEQUENCE LISTING   DATE: 06/06/2002
PATENT APPLICATION: US/09/763,824   TIME: 14:31:07

Input Set : A:\seq listing filed.txt
Output Set: N:\CRF3\06062002\I763824.raw

66 cgaacacttc ttcatcgttg accgccttaa gtctttaatt aaatacaaag g   51
69 <210> SEQ ID NO: 4
70 <211> LENGTH: 51
71 <212> TYPE: DNA
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Description of Artificial Sequence:
76   Oligonucleotide
78 <400> SEQUENCE: 4
79 cctttgtatt taattaaaga cttaaggcgg tcaactatga agaagtgttc g   51
82 <210> SEQ ID NO: 5
83 <211> LENGTH: 32
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Description of Artificial Sequence:
89   Oligonucleotide
91 <400> SEQUENCE: 5
92 gaaaggcccg gcaccagcct atcctctaga gg   32
95 <210> SEQ ID NO: 6
96 <211> LENGTH: 32
97 <212> TYPE: DNA
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Description of Artificial Sequence:
102   Oligonucleotide
104 <400> SEQUENCE: 6
105 cctctagcgg ataggctggt gccgggcctt tc   32
108 <210> SEQ ID NO: 7
109 <211> LENGTH: 36
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Description of Artificial Sequence:
115   Oligonucleotide
117 <400> SEQUENCE: 7
118 ccataaattt accgaattcg tcgacttcga tcgagg   36
121 <210> SEQ ID NO: 8
122 <211> LENGTH: 18
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence:
128   Oligonucleotide
130 <400> SEQUENCE: 8
131 gtgtggaatt gtgagcgg   18
134 <210> SEQ ID NO: 9
135 <211> LENGTH: 21
136 <212> TYPE: DNA

RAW SEQUENCE LISTING   DATE: 06/06/2002
PATENT APPLICATION: US/09/763,824   TIME: 14:31:07

Input Set : **A:\seq listing filed.txt**
Output Set: **N:\CRF3\06062002\I763824.raw**

```
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Description of Artificial Sequence:
141       Oligonucleotide
143 <400> SEQUENCE: 9
144 gagatacgcc gcggttcctg g                                        21
147 <210> SEQ ID NO: 10
148 <211> LENGTH: 21
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Description of Artificial Sequence:
154       Oligonucleotide
156 <400> SEQUENCE: 10
157 ccaggaaccg cggcgtatct c                                        21
160 <210> SEQ ID NO: 11
161 <211> LENGTH: 30
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Description of Artificial Sequence:
167       Oligonucleotide
169 <400> SEQUENCE: 11
170 ccctattttc attcctggcc aaaagcactc                               30
173 <210> SEQ ID NO: 12
174 <211> LENGTH: 30
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Description of Artificial Sequence:
180       Oligonucleotide
182 <400> SEQUENCE: 12
183 gagtgctttt ggccaggaat gaaaataggg                               30
186 <210> SEQ ID NO: 13
187 <211> LENGTH: 27
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence:
193       Oligonucleotide
195 <400> SEQUENCE: 13
196 ccgcatagag ctctctgcgt cagattc                                  27
199 <210> SEQ ID NO: 14
200 <211> LENGTH: 27
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Description of Artificial Sequence:
206       Oligonucleotide
```

RAW SEQUENCE LISTING   DATE: 06/06/2002
PATENT APPLICATION: US/09/763,824   TIME: 14:31:07

Input Set : A:\seq listing filed.txt
Output Set: N:\CRF3\06062002\I763824.raw

```
208 <400> SEQUENCE: 14
209 gaatctgacg cagagagctc tatgcgg                                    27
212 <210> SEQ ID NO: 15
213 <211> LENGTH: 30
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Description of Artificial Sequence:
219       Oligonucleotide
221 <400> SEQUENCE: 15
222 gttgaccgct tgggatcctt aattaaatac                                 30
225 <210> SEQ ID NO: 16
226 <211> LENGTH: 22
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Description of Artificial Sequence:
232       Oligonucleotide
234 <400> SEQUENCE: 16
235 gtatagattt gaaaagagc tg                                          22
238 <210> SEQ ID NO: 17
239 <211> LENGTH: 22
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Description of Artificial Sequence:
245       Oligonucleotide
247 <400> SEQUENCE: 17
248 cagctctttt tcaaatctat ac                                         22
251 <210> SEQ ID NO: 18
252 <211> LENGTH: 22
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence:
258       Oligonucleotide
260 <400> SEQUENCE: 18
261 ggctacatac tggagacata gc                                         22
264 <210> SEQ ID NO: 19
265 <211> LENGTH: 22
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: Description of Artificial Sequence:
271       Oligonucleotide
273 <400> SEQUENCE: 19
274 gctatgtctc cagtatgtag cc                                         22
277 <210> SEQ ID NO: 20
278 <211> LENGTH: 21
```

RAW SEQUENCE LISTING   DATE: 06/06/2002
PATENT APPLICATION: US/09/763,824   TIME: 14:31:07

Input Set : A:\seq listing filed.txt
Output Set: N:\CRF3\06062002\I763824.raw

```
279 <212> TYPE: DNA
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: Description of Artificial Sequence:
284       Oligonucleotide
286 <400> SEQUENCE: 20
287 gcagttgcgc ccgtgaacga c                                    21
290 <210> SEQ ID NO: 21
291 <211> LENGTH: 21
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence:
297       Oligonucleotide
299 <400> SEQUENCE: 21
300 gtcgttcacg ggcgcaactg c                                    21
303 <210> SEQ ID NO: 22
304 <211> LENGTH: 29
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Description of Artificial Sequence:
310       Oligonucleotide
312 <400> SEQUENCE: 22
313 caaatcattc cgggtactgc gattttaag                            29
316 <210> SEQ ID NO: 23
317 <211> LENGTH: 29
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Description of Artificial Sequence:
323       Oligonucleotide
325 <400> SEQUENCE: 23
326 cttaaaatcg cagtacccgg aatgatttg                            29
329 <210> SEQ ID NO: 24
330 <211> LENGTH: 27
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Description of Artificial Sequence:
336       Oligonucleotide
338 <400> SEQUENCE: 24
339 ccgcatagaa ctctctgcgt cagattc                              27
342 <210> SEQ ID NO: 25
343 <211> LENGTH: 27
344 <212> TYPE: DNA
345 <213> ORGANISM: Artificial Sequence
347 <220> FEATURE:
348 <223> OTHER INFORMATION: Description of Artificial Sequence:
```

→ Please correct this error in subsequent sequence.

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/06/2002
PATENT APPLICATION: US/09/763,824   TIME: 14:31:08

Input Set : **A:\seq listing filed.txt**
Output Set: **N:\CRF3\06062002\I763824.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:28; N Pos. 15,16,17
Seq#:29; N Pos. 13,14,15